Cryptocurrency Investor Handbook: How to invest in

Smith, Matthew

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Cryptocurrency
Investor Handbook

How to invest in cryptocurrency,
top 5 cryptocurrency

by

Matthew Smith

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INTRODUCTION

Cryptocurrencies were recently published because tax authorities claim that they can use them for money laundering and tax avoidance. Even the Supreme Court has named a Black Money Special Investigation Team to prohibit trade in such money. Although China has recently barred some of Bitcoin's biggest trading traders, countries like the United States and Canada have legislation in place to limit cryptocurrency inventories.

As the name suggests, cryptocurrency uses cryptographic codes to influence a transaction. Such codes are understood by other user group machines. Instead of using paper money, ordinary bookkeeping entries update an online library. The account of the purchaser is debited and the account of the seller is credited with the currency.

When a transaction is initiated by one user, its machine sends the public cipher or public key which interacts with the private cipher of the person receiving the currency. The initiating computer adds a piece of code to a block of several such encrypted codes known to every network user if the receivers approve the transaction. Special ‘Miners’ users can apply the additional code to the publicly shared block by overcoming a cryptographic puzzle and obtaining further encryption. Once a miner approves a transaction, it cannot alter or erase the record in the chain.

CHAPTER ONE

Main Crypto and Alt Coins

Cryptocurrency is an Internet exchange medium which uses financial transactions with cryptographic functions. To order to achieve decentralization, transparency, and immutability, cryptocurrencies use technology blockchain. A cryptocurrency is of utmost importance because the central agency is not in charge; cryptocurrencies are the decentralized essence of the blockchain.

What are Altcoins?

Altcoins are the other cryptocurrencies which launched after the success of Bitcoin, usually operating as stronger Bitcoin alternatives. The word 'altcoin' is a combination of alternative and coin and applies to cryptocurrencies other than Bitcoin. Some estimates have shown over 5,000 cryptocurrencies by the beginning of 2020. As the first peer-to-peer digital currency, Bitcoin's success has paved the way; most altcoins are trying to target the perceived reaches of Bitcoin. An altcoin must have a competitive advantage against Bitcoin, but many of these altcoins depend upon its basic framework. Therefore, most altcoins are peers that try to make Internet transactions secure and inexpensive. Even with many similar features, altcoins vary widely.

Types of Altcoins

As altcoins evolved, various categories emerged. Some major types of altcoins include mining-oriented cryptocurrencies, secure coins, tokens for protection, and tokens for utilities. Nonetheless, most of these definitions are distinct from altcoins. Only those cryptocurrencies based on mining other than Bitcoin will be referred to as altcoins when this trend continues. Mine-based altcoins have a method of extraction which creates new coins to solve complex problems in blocks that are unlocked. This is more like Bitcoin than other altcoins. In early 2020, many of the top altcoins came to this party. Ethereum has been the most common mining altcoin ever

since February 2020.

There are also safe coins to boost Bitcoin's security. The value of the coins in use is linked to current currencies. The dollar, the euro, and gold are popular options to finance altcoins. The Facebook libra is by far the most prestigious safe coin, although it was not released until January 2020. These altcoins are related to businesses and often launch an initial coin offer (ICO). Protection tokens and securities tokens resemble traditional securities and often provide other kinds of dividends, such as compensation or ownership. Utility tokens provide a utility statement that is often offered in an ICO. File coin is a good example of an ICO token. Coins for shared file storage should be traded.

How to Buy Cryptocurrency

Where to purchase cryptocurrencies?

To learn how to purchase cryptocurrency, you first need to know where to purchase cryptocurrency. As of one year ago, there were only a few places to buy and sell cryptocurrencies – but there's a lot more now! Let's see the various places and ways you can get your cryptography.

How to buy cryptocurrency at cryptocurrency exchanges: Cryptocurrency exchanges are online websites that allow you to exchange local currency for cryptocurrency—the most common way to buy cryptocurrency.

Payment method: Some exchanges accept bank transfer payments or credit cards; some also accept PayPal.

You can choose from a number of exchanges. Each has various levels of security and supports different types of payment methods. Most exchanges will ask you to follow the following steps before you can start purchasing cryptocurrency.

The first step is to register with your details (full name, email address, cell phone number, etc.). The next step is to validate your identification - typically you need a passport/driving license.

You will then be asked to set up a 2-step test. This helps to protect your account and keep the hackers away!

Note: Almost all exchanges charge between 1-4% of the transaction fee.

You'll start purchasing cryptocurrency on the exchange once your account is set up. Most exchanges are just like sites for stock trading: you can either buy your cryptocurrency or swap it for another cryptocurrency.

When choosing the cryptocurrency exchange, you must be patient. It would help if you decided on the following factors:

Test the exchange protection. This is significant because investors have lost a lot of money in the past when their exchanges were

hacked.

What about the number of available payment options - do you accept bank, credit card, PayPal, and so on?

The time it takes to trigger your account can vary. You may not want to wait a long time before you're reviewed if you are in a rush!

What are the choices for cryptocurrencies they sell? For starters, if you want to buy the NEO coin, you need to be sure that your choice of exchange sells the NEO coin.

Test the exchange user reviews! This gives you good idea of how helpful the website can be used.

The best broker exchanges for cryptocurrency are like a currency exchange shop at the airports. Nevertheless, you can swap your local currency for cryptocurrencies instead of converting different local currencies (such as YEN to USD). This is the simplest way to buy cryptocurrencies - even from your smartphone!

Binance

URL: *https://www.binance.com/ru/register?ref=HBJCLGB7*

Binance is a popular cryptocurrency exchange which was started in China but then moved their headquarters to the crypto-friendly Island of Malta in the EU. Binance exploded onto the scene in the mania of 2017 and has since gone on to become the top crypto exchange in the world.

Coinbase

URL: *https://www.coinbase.com*

Coinbase is the largest and most popular exchange of cryptocurrency brokers. Their bank transfers, credit/debit cards, and PayPal are safe and appropriate. Your charges depend on which method of payment you choose, so please check before you pay! The average card fee is 3.75 percent.

Coinmama

URL: *https://go.coinmama.com/visit/?bta=60150&nci=5343*

Coinmama's biggest advantage is that it helps consumers from almost every country to purchase and sell cryptocurrency. It's easy to use and very trustworthy — it was created in 2013! It allows you to use a credit card as your method of payment, but charges 6 percent. That's a bit higher than the 3.75% paid by Coinbase!

Coinmama also has a big advantage in nearly every country: it accepts every local currency!

CEX.io

URL: *https://cex.io/r/0/up129983534/0/*

CEX.io, just like Coinbase and Coinmama, is simple to use and very stable! CEX.io is also a stock exchange, which is the best thing about it. This means that after you have purchased your crypt, you can buy and sell it to other people on CEX.io for other cryptos.

Another thing that distinguishes CEX.io is its adoption of USD, EUR, GBP, and RUB! CEX.io debit/credit card fees are 3.5% + $0.20. Bank transfers can also be used.

Bitstamp

URL: *https://www.bitstamp.net*

Bitstamp was established in 2011 and is one of the oldest exchanges for cryptocurrencies. You can buy more cryptocurrencies than you can on Coinbase and it accepts bank transfers and EUR and USD credit/debit cards.

Kriptomat

URL: *https://app.kriptomat.io/register?referral=ref29796*

An exchange that recently opened its doors and has great potential. In 2018, Kriptomat opened its doors and was our youngest brokerage. Their main operating center is in Slovenia, but the business is located in Estonia, as Estonia is one of the countries with the necessary legal framework; the implementation of Crypto Exchanges and Crypto Wallets licenses has already initiated the regulation of digital currencies.

Kriptomat aims to provide the safest fiat portal in the world of

cryptocurrencies and has already secured operating licenses from the Estonian Anti Money Laundering Unit (AML).

How to Buy Cryptocurrency: How can you buy Bitcoin from an ATM?

How can you buy Bitcoin from an ATM? Oh, they exist! It's a new idea, but it's increasingly popular.

Bitcoin ATMs are the same as the usual cash ATMs we use for the withdrawal of our USD, EUR, JPY, etc. Instead of withdrawing cash from regular cash ATMs, the only difference is that you deposit cash in the Bitcoin ATM.

If you want to buy Bitcoin quickly, then you have a Bitcoin ATM. However, because they're very new, they aren't accessible everywhere. Currently they're pretty rare, but you may have one near you if you live in a big city. You don't need to register an account; no money is needed to switch. So, go to the ATM, insert some cash, and it's going to send it.

Step-by-Step Buying Bitcoin from an ATM:

- Go to an ATM and verify your identification (only certain ATMs need this).
- Most ATMs will ask for your telephone number. If so, enter your telephone number.
- The ATM sends a text message with a code; enter the code in the ATM and, if you have one, give your cryptocurrency wallet address. If you don't have one, the ATM will create a new cryptocurrency wallet for you.
- Put your cash into the ATM.
- The ATM will then provide your cryptocurrency crypto wallet.
- The ATM prints your receipt.

Important note: If a new wallet has been developed, your cryptocurrency wallet information will be on your receipt (public and private keys). You MUST be sure to keep that secure!

Pros of purchasing cryptocurrency from a Bitcoin ATM:

- You have purchasing identification in most Bitcoin ATM's
- This is a simple process
- You can use cash
- This is a very easy

Cons of purchasing cryptocurrency from a Bitcoin ATM:

- About 5-10 percent of fee.
- ATMs are difficult to find since there aren't many of them.

How to Buy Cryptocurrency

Ether P2P (Peer-to-Peer) is one of the easiest ways to purchase cryptocurrency! Peer-to-peer exchanges eliminate the middle-man (companies like Coinbase) and allows users to purchase cryptocurrency directly from each other.

What's the best place to purchase cryptocurrency?

More ways to buy cryptocurrencies emerge every year - the buying of cryptocurrency is now much simpler than before. Indeed, most of the directions shown in this guide are very easy to follow. But what's the best way...? Is it like Coinbase, via broker exchanges? Via LocalBitcoins, such as P2P websites? Or is it just to find your local Bitcoin ATM?

Okay, it depends on where you are and what you want/need.

It's probably not best to try and buy a cryptocurrency from a Bitcoin ATM if there isn't one nearby.

You don't want to use your ID? Maybe you want to think about using a P2P platform such as LocalBitcoins or Local Ethereum.

If you don't have a problem using your ID and want to use an app on your phone to purchase cryptocurrency, Coinbase might be the best place for you.

It's up to you. This guide helps you learn which way is best for you; you'll find that our guidance is simple and easy to follow. You should

now be well-informed about how to purchase cryptocurrencies. So, what have you chosen? Let us know! Let us know!

How to Sell Cryptocurrencies

This guide helps you better understand what Bitcoin is and how you can take advantage of this opportunity.

Phase 1: Setting up an exchange account

It's easy to sign up for an account, but there are some steps to take. You'll be required to comply with different forms of "Know Your Customer" rules, which may include submitting other forms of ID to the web depending on the country you are in. It may take days to process. It is also recommended, but not strictly necessary, that sign up to Coinbase Pro at the same time to give you greater control over your sales.

Once your account has been established, link your bank account to it so that you can get your cash out as quickly as possible after you've done business.

Phase 2: Pass your Bitcoin to your exchange wallet

Beginners can always use the Coinbase Wallet App to make it incredibly easy to link the wallet, as it automatically works with the Coinbase company. Just open the app, wait for the "Connect now" notification, and enter the login information for your Coinbase. If you don't see the article, you can always go to Settings and select Connect to Coinbase to start. The Coinbase Wallet also has a number of other functional features, including the ability to pay tradesmen directly from the wall when included in the Coinbase Commerce system.

Coinbase's safety regulations are fine, providing biometric support and advanced technology for authentication. But, if you prefer using a digital wallet, look for ways to link to a currency exchange. You should be able to enter and begin an authentication process for connecting your Coinbase username on the most common digital wallets. However, it might take a few days, so it isn't a last-minute step.

Phase 3: Place a selling order

With your exchange account created, your bank account associated, and your Bitcoin deposited on the exchange, it's time to make a sale. This is very simple with the latest version of Coinbase. Only pick Buy/Sell from the top menu and switch to Sell. Choose Bitcoin as your preferred currency and ensure that you select the right destination for your funds in the Deposit To section. If you have a bank account linked to your account, you can pick there to transfer it directly.

Alternative approach: If you're interested in the actual sale process, direct trades are a possible alternative (or peer-to-peer trades). You will need to register (which, in some cases, involves verifying your identity), so we would recommend that you set up your account well in advance with all sales approaches ready for when you want to sell. However, once you're been set up, you can sell your bitcoins much more directly.

In comparison to the exchanges that automate transactions, you have to execute the transaction in direct contact with the buyer. You have formed a sales order for a certain amount and, when someone arrives to purchase the agreed price, the platform will inform you that you can proceed. Once you both give the thumbs-up, the buyer pays you and you send the cryptocurrency in return.

The actual method of payment would depend heavily on which platform you use for the exchange. Sites like Bit Quick keep things online solely via bank transfers. Nevertheless, websites such as Local Bitcoin or Paxful have many more choices, including MoneyGram, gift card, mail cash, and even gold.

Though some of these approaches take far more time, others are more discreet and can keep your transactions away from prying eyes, if this is to your benefit. When you want to do business in person, ensure that it's in a public environment.

Which Cryptocurrency to Invest in

I will mention top 5 cryptocurrency to Invest in 2020. The Covid-19 outbreak has been the primary topic of discussion and this year will definitely have biggest influence on economy of the countries.

Bitcoin

If you know of just one cryptocurrency, presumably it's Bitcoin. Founded in 2009 by a programmer or, possibly, a group of programmers under the pseudonym Satoshi Nakamoto, Bitcoin ushered in a new age of blockchain technology and decentralized digital currencies. It is the biggest cryptocurrency— it accounts for 40% of the total cap on the cryptocurrency market. Bitcoin is not the first cryptocurrency but it is the most popular, continuing to dominate the market. The Bitcoin halving is the most significant event for the cryptocurrency this year. The mining reward, which currently stands at 12.5 BTC, will be slashed to 6.25 BTC by May 2020. This will be the third Bitcoin halving since the cryptocurrency went live 11 years ago. So historically the halving event was followed by a bull run, and in 2020 it's seem to be the same. Now more people are looking to buy and hold the coin ahead of halving event.

The price of Bitcoin changes a lot every day; in recent years it has seen a lot of ups and downs.

The price of 1 Bitcoin in December 2017 rose from around $76 (07.09.13) to as high as $20,000. Then, after Bitcoin reached its peak in December, its price decreased to approximately $6000 in February 2018 and has fallen ever since. It's nuts!

With the price changing over such a short time, how do you decide on the best time to invest in Bitcoin?

Okay, we can try to find the answer by looking at some major events from the past— when the price rose or dropped considerably.

One important event was the splitting of bitcoin into two coins; Bitcoin and Bitcoin Cash. This happened on the first day of August 2017. Investors who knew about it prior to it happening split their money and gained a huge income, almost doubling their investment!

In January 2018, the price of Bitcoin decreased to approximately $10,000; nearly half the $20,000 of December 2017. Most investors at this stage became concerned and decided to sell their Bitcoin. In February 2018, the price fell to around $6,000.

If you want to invest in Bitcoin, you need to keep up with the latest Bitcoin news and trends. You may want to think about the purchasing of Bitcoin when news is published about new technical improvements. If Bitcoin's price drops massively, then it might also be a good time to buy Bitcoin.

If you've decided to invest in cryptocurrencies, then starting to invest in bitcoin might be a good idea. While you skipped the first major chance to invest, it might still be a smart idea to invest in Bitcoin.

It depends on whether you believe in Bitcoin's future. You should dream about investing in it if you believe in it. If you do not, you should stay away from it. The same is true for any investment!

Ethereum (ETH)

By the end of last year, the Ethereum price was somewhat above $720, with a total market cap of approximately $70 billion. Ethereum soared at the beginning of 2018 to its highest price of $1423 on 4 January. At that time, Ethereum had a total market cap of $138 billion!

Ethereum rose by approximately 3000 percent in 2017 and became the second-largest cryptocurrency, with Bitcoin second.

Ethereum is now looking to move away from the Proof of Work (PoW) blockchain to become a Proof of Stake (PoS) network. This means the coin would be staked instead of mined. The transition is to make Ethereum the most secure cryptocurrency in the world. This year Ethereum co-founder Vitaliy Buterin is heading to move towards the new network. It could lead to the massive rally in the price.

Ripple (XRP)

Ripple was one of the most popular cryptocurrencies in 2017 and grew by about 36,000 percent! Yeah, you read that correctly.

Like all the other cryptocurrencies, Ripple's price also fell to $0.36 in 2018.

You missed a big chance by not spending Ripple at the beginning of 2017. While that is valid, Ripple may still be a good option for investing in 2020 as your next cryptocurrency.

While the price of an XRP is much lower than the price of a Bitcoin, XRP remains the market's 3rd largest cryptocurrency. It had a total market value of about 35 billion dollars in May 2018.

So, what about Ripple has made it so famous with investors?

The main reason for Ripple's success is that it’s a payment system which doesn’t just work for digital currencies. Ripple uses blockchain technology to protect and speed up international payments.

If you were trying to make an international bank transfer today, processing the transaction would take between 2-10 days. The same transfer takes a few seconds when using Ripple. How awesome that is!

But there’s more good news–Ripple's solutions are already used by many important financial companies, such as American Express, JP Morgan, and Santander. In addition, has Ripple collaborated with the Central Bank of Saudi Arabia, Chinese LianLian International, and other banks worldwide.

So, if you’re wondering how to invest in blockchain, Ripple could be the best solution.

Based on what’s been described, the future of Ripple could be a positive one for the financial industry. You’ll take care of Ripple, learn more about its partnerships, and look for new collaborations, too – if Ripple signs an agreement with another large bank, it may increase XRP's price.

The founders who knew of Ripple's offerings made a lot of money. Ripple could be the best cryptocurrency to invest in for 2020 after a great 2017.

Note: It could be a good time to invest in Ripple since, in January 2017, its price dropped 70% lower than its all-time high of $3.4.

Litecoin (LTC)

Without Litecoin, our list of the best cryptocurrencies to invest in for 2020 is not full. Like Ripple, Litecoin performed very well in 2017 with almost an 8000 percent growth.

Litecoin's price increased from approximately $4 in early 2017 to a high of $358 in December 2017. However, as with most cryptocurrencies, Litecoin also followed the price trend and, in February 2018, fell to $110.

Both Litecoin and Bitcoin's price followed a similar pattern during the last year.

Litecoin is the 5th largest cryptocurrency with an approximately $11 billion market cap. Because of its close connection with Bitcoin, Litecoin continues to attract investors. It provides a good argument for Litecoin to be on our list of cryptocurrencies to invest in for 2020.

Litecoin was developed in 2011 to improve Bitcoin technology. The transaction is completed by Litecoin 4 times faster than Bitcoin. Like Bitcoin, however, Litecoin's maximum number is capped at 84 million — four times more than Bitcoin's coin supply (21 million).

Litecoin was the first cryptocurrency to carry out a trade in the Lightning Network in May 2017. Using the Lightning Network, 0.00000001 Litecoin was transferred in less than one second from Zurich to San Francisco! While Litecoin continues to use the Lightning Network, Litecoin's price could further increase!

Dash (DASH)

Rounding out the top 5 cryptocurrencies is Dash. It is one of the cryptocurrencies that could be benefiting from the ongoing COVID 19 outbreak. The World Health Organization (WHO) recently notified the general public that the virus could be transmitted through the exchange of paper cash. As such, people are advised to use contactless technology to receive payment.

In crypto assets technologies, Dash remains one of the best cryptos suited for instant payment. It is already used by thousands of merchants around the world since it is easy, fast and cheap.

International Regulations for Cryptocurrencies Will Create Win-Win Situations

The context of Initial Coin Offering has made the world ready for technology start-ups all over the world to focus on blockchain platforms. A decentralized network that can allocate tokens to users who endorse a money concept is revolutionizing and awarding.

Bitcoin's profit-spinning turned out to be an ‘asset' for early investors who produced diverse returns in 2017. Investors and cryptocurrency exchanges worldwide capitalized on the ability to generate huge returns on their own, which culminated in the rise of many online exchanges. Others, such as Bitcoin, Ripple, and other ICOs, have offered even better results. (Ethereum grew more than 88 times in 2017!) As ICOs reached out to startups with millions of dollars in the span of a matter of days, the governing bodies initially chose to keep an eye on them. This was the fastest growth of fintech ever, able to raise millions of dollars in a very amount of short time.

Countries around the globe are plummeting about controlling cryptocurrencies. Regulators have become wary as technology, and its underlying consequences, grew in popularity when ICOs began plumbing funds worth billions of dollars.

At the end of 2017, governments around the world made the decision to interfere. Although China banned cryptocurrencies, the SEC (Securities and Exchange Commission) in the USA underlined and agreed to view insecure investors as securities.

On 6 April 2018, a circular from the Central Bank of India to other banks asked them to break ties with firms and exchanges involved in cryptocurrency trading.

In Britain, the FCA (Financial Conduct Authority) has announced in March that it has formed a crypto-monetary task force and is seeking assistance in overseeing the crypto-monetary market from the Bank of England.

Various laws and tax structures around the world

Cryptocurrencies are primarily coins or tokens released on a

cryptographic network and tradable around the world. As cryptocurrencies are more or less the same across the world, countries with different laws and regulations may give different returns to investors who may be people of different countries.

Different laws for investors from different countries will render a tiring and tedious exercise in the estimation of returns.

This would mean expending energy, money, and techniques to unnecessarily prolong procedures.

The solution

Instead of several countries adopting different laws for digital cryptocurrencies, a single global regulatory authority with border-wide applicable laws should be created. Such a step will play an important role in increasing the number of legal cryptocurrency trades worldwide.

Global organizations like the United Nations (UN), World Trade Organization (WTO), World Economic Forum (WEF), and International Trade Organization (ITO) have already made important contributions in bringing the world together on various fronts.

Cryptocurrencies were created with a fundamental idea of the worldwide transfer of funds. We have a meaning which is more or less comparable across exchanges, except for negligible arbitration.

A worldwide regulator for the regulation of cryptocurrencies is the need of the hour and could lay down global rules to govern new modes of financing. Every country is currently trying to regulate virtual currencies through legislative processes.

If economic superpowers reached a consensus with other countries - to establish a regulatory body with legislation that knows no national frontiers - this would be one of the biggest breakthroughs in the creation of a crypto-friendly environment and the use of one of the most open fintech systems ever.

Uniform control of sub-part trading, returns, taxes, fines, KYC procedure, trade laws, and punishments for unauthorized hacks will give us the following advantages.

1. This can make it super easy for investors worldwide to

measure income, because net profit would not vary due to common tax structures

2. Countries worldwide would agree to share a certain portion of the profit as tax. The share of the countries in taxes collected would, therefore, be standardized throughout the world.
3. It would be possible to save time by forming various commissions, writing bills, and debates in the legislative arena (like the Indian Parliament and the US Senate).
4. You don't have to go through stringent tax laws in each region, especially with the multinationals involved.
5. Only companies that offer tokens or ICOs must adhere to the so-called international law. Calculating post-tax revenue would, therefore, be a cake for companies.
6. A globalized system would allow more firms to come up with better ideas and increase jobs worldwide.
7. The law may be sponsored by an international surveillance dog or regulator for global currencies, which may have the power to mark an ICO bid as not compliant with the requirements.

However, a law that would regulate cryptocurrencies worldwide is not all about benefits.

There are also some disadvantages

It may take time to persuade world financial leaders to come together and draft a rule. Discussions and bringing them to consensus might be challenging.

1. Countries or economies providing tax-free systems may not agree to accept the law, which provides for a universal fiscal policy.
2. The global surveillance officer or the intervention of the regulatory authority in monitoring the ICO-related creation of regulations may not sit well with other countries.
3. The universal law may result in the world being divided into factions. It may not be part of countries that do not support

cryptocurrencies, like China.

4. The law can be the brainchild for economically powerful nations that can build it in accordance with their best interests.
5. This legislation would be centralized with a national regulatory body, unlike decentralized cryptocurrencies.

The world is better together, be it creating a peaceful world after the Second World War or uniting for better trade laws and treaties.

The ITO, the World Trade Organization, and the World Economic Forum have some of the best brains that characterize the global economy.

We should unite and be part of a body that would determine the world's economic growth. This will help develop global cryptocurrency standards and could be a part of the regulatory body that would provide a guide to thousands of ICOs worldwide.

How Invest in Cryptocurrency

Whether it's the concept of cryptocurrencies themselves or their portfolio diversification, people from every walk of life invest in digital currency. If you're new to the idea and wonder what's going on, here are some basic concepts and assumptions about cryptocurrency investment.

Top 5 cryptocurrencies and how can I buy them?

Here are top 5 cryptocurrencies to buy in 2020:

Bitcoin is the best-known cryptocurrency, with a market cap of around $278 billion. With a market cap of over 74 billion dollars, Ethereum is second. There is also a range of other alternatives, including Ripple ($28B), Litecoin ($17B), Dash ($6M)

Information about market cap for above top 5 cryptocurrencies is vary with time and depend of the market price of each coin. Now all market prices are significantly drop down, due to spread of Novel Coronavirus, which affect not only stocks market, but also Crypto market.

First, on the market there are a number of Bitcoin trading exchanges worldwide. Bit Stamp and Coinbase are two well-known exchanges located in the United States. Bitcoin.de is a European exchange. If you want to exchange other digital currencies together with Bitcoin, you'll find all digital currencies in one place in the crypto sector. Here's a list of exchanges based on their trade volume of 24 hours.

How can Crypto-Money Laundering be used?

The fact that central banks or tax authorities have no power over crypto-monetary transactions means that transactions cannot always be attributed to a specific person. This means that we don't know whether the transactor has legally stored the interest. The store of the transactee is similarly suspicious, as nobody can say how the currency is treated.

What does Indian law say about virtual currencies of this kind?

Virtual currencies or cryptocurrencies are generally regarded as software items and are therefore treated as products under the Products Selling Act of 1930.

The selling or purchase of goods, indirect taxes, and GST on services provided by Miners will apply to them.

Whether cryptocurrencies are as true as the currency in India is still quite somewhat confusing; the RBI, which has the competence to operate clearing and payment systems and pre-paid negotiable instruments, has certainly not approved the purchase and sale via this medium.

Any cryptocurrencies obtained by an Indian citizen will, therefore, be controlled as imports of products into that country by the Foreign Exchange Management Act of 1999.

India has approved the trading of BitCoins with integrated protections for tax evasion or money laundering activities and the compliance of Know Your Customer Standards. This includes Zebpay, Unocoin, and Coinsecure.

For example, those who invest in BitCoins are liable for the dividends earned.

Capital gains obtained from sales of virtual currency-related assets are also subject to taxation, as are profits and consequent online filing of IT returns.

If your investments in this currency are growing, you will get the help of a customized tax service. Online platforms have made the tax compliance process much easier.

Best Cryptocurrency Wallet

What are my options for storing my money?

The handling of coins is another important consideration. One choice is to store it on the exchange where you buy it. However, you must be careful to choose the trade. The success of digital currencies has led to numerous new, unknown exchanges. Take the time to take due care in order to stop the scammers.

Crypto wallets come in many forms, including web wallets, mobile,

desktop, paper, brain and hardware wallets. Some desktop wallets, called full nodes, hold a complete copy of the blockchain for the cryptocurrency. On local storage, this type of wallet has a long sync process when opened and creates a massive amount of stored data.

A slimmer version is a lite wallet, also called a **simple payment verification (SPV) wallet,** which relies on a full node hosted elsewhere to validate transactions on the blockchain. Lite wallets are faster and use less disk space on your local storage.

Types of Crypto Wallets

1. Hot wallets

These types of wallets use keys that were created or are stored on a device that has access to the internet. Because the keys were created or are stored on a device that can be accessed remotely, a hot wallet is regarded as the least secure type of wallet, but is also the most popular due to its utility and convenience.

2. Cold wallets

Cold wallets use keys created on a device that has never had access to the internet.

Examples of cold wallets are hardware wallets, such as a portable USB drive or smart card device, paper wallets (keys only written on paper) or brain wallets, which use a seed made of a series of words or a password that can be memorized.

3. Hosted wallets

These live on another server that you don't control. Hacking can happen on any server that has network access or that can be accessed physically, but hosted wallets create a more attractive target than a computer in your home that holds your crypto wallet due to the number of wallets on the server.

You can think of a hosted wallet as being similar to a bank — a third party holding your money on your behalf — but without the FDIC insurance or other consumer protections provided by banks.

4. Decentralized wallets

A decentralized wallet means that only you hold the keys to your

crypto wallet and you have the freedom to send or receive cryptocurrency with your wallet anywhere in the world. A decentralized wallet doesn't guarantee complete anonymity. It simply means you don't rely on a third party to send, receive, or store your cryptocurrency, removing part of the security risk associated with hosted wallets.

Best Hardware Cryptocurrency Wallets

Another tool you can use to store cryptocurrencies are computer wallets. Companies such as *Ledger, Trezor, KeepKey* provide physical wallets which can also store Bitcoins and several other digital currencies. Cryptocurrency should only be kept in wallets that you control.

Best Cryptocurrency Wallet for mobile

One of the most popular crypto wallets for mobile devices, *Citowise* supports nearly 40 cryptocurrencies and provides a high level of security by using centralized validation.

You control your private keys.

A simple-to-understand interface gives you access to your wallet as well as to integrated exchanges so you can purchase other types of cryptocurrencies or rebalance your portfolio.

If you need multi-signature support or two-factor authentication, you'll need to look elsewhere.

Citowise's proprietary software doesn't yet support this feature.

Infinito Wallet, multi-currency

Infinito Wallet lives up to the broad support its name suggests.

It supports an extended list of leading cryptocurrencies, such as Bitcoin, Ethereum, Bitcoin Cash, EOS, Litecoin, GAS, Dash, ETC and Dogecoin and all tokens on ETH ERC20, NEO NEP-5, EOS and even more to come.

Infinito Wallet also supports access to leading smart contract blockchain tokens such as ETH ERC20, and NEO NEP-5, with more token support planned in the future.

As with Citowise, you control your private keys, enhancing security.

Best Cryptocurrency Wallet for Desktop

Exodus supporting dozens of types of cryptocurrencies but with a private key stored only on your local hardware, you have total control over your crypto wallet, and retain your privacy over who you send money to and who sends money to you. Exodus also provides exchange functionality, allowing you to exchange one type of cryptocurrency for another and providing fast transactions, with the new currency then stored in your secure wallet.

Wallets are full node, just as you'd expect from a secure local wallet. Exodus is compatible with Windows, Mac, and Linux.

Jaxx Liberty, multi-currency.

With a dedicated client for Windows, Mac, or Linux desktops — as well as apps for Android and iOS, Jaxx Liberty aims for cross-platform accessibility from your desktop, mobile, or tablet. A Chrome extension also brings a limited feature set to the leading web browser.

A single code base shared across all platforms brings new features to all platforms at the same time. Nearly 70 cryptocurrencies are supported by the Jaxx wallet, with privacy ensured by centralized validation. You control your private keys. Jaxx also has exchange features, so you can exchange one currency for another and rebalance your portfolio as desired.

Electrum **,** Bitcoin only

An open source entry, Electrum was released in 2011 and is under continual development. However, only one currency is supported at this time. You can hold any currency you want in your Electrum crypto wallet, as long as it's Bitcoin.

As a standout feature, multi-signature is supported, so Electrum may be a good fit for wallets for Bitcoin-savvy businesses or multiple individuals with shared financial interests. As only one currency is supported, no exchange services are integrated.

Validation is done by SPV, wherein you control your keys but the blockchain is synced via specialized servers and not downloaded

locally.

I have mentioned best cryptocurrency wallet of different types.

You can choose which is more convenient for your own use.

Cryptocurrency Keys

What is the cryptocurrency keys? A private key is a sophisticated form of cryptography that allows a user to access his or her cryptocurrency. A cryptocurrency keys is an integral aspect of bitcoin and alt coins, and it helps to protect a user from theft and unauthorized access to funds.

Understanding Cryptocurrency Keys.

When dealing with crypto assets, a user is usually given a public address and a cryptocurrency keys to send or receive coins or tokens. The public address is where the funds are deposited and received. But even though a user has tokens deposited into his address, he won't be able to withdraw them without the unique private key. The public key is created from the cryptocurrency private key through a complicated mathematical algorithm. However, it is near impossible to reverse the process by generating a private key from a public key.

How can I learn more about the market?

There are many variations in the cryptocurrency market. The competitive nature of the market makes it more suitable for long-term entertainment.

There are many established news websites, including CoinDesk, Business Insider, Coin Telegraph, and Crypto Coin News, that report digital currencies. In addition to this page, there are also several Twitter posts, including @BitcoinRTs and @AltCoinCalendar, which tweet about digital currencies.

Digital currency is intended to disrupt the traditional market of currencies and commodities. Although these currencies still have a long way to go, the rise of Bitcoins and Ethereum shows that the idea has genuine interest. Knowing the fundamentals of the investment in cryptocurrency should help you move in the right

direction.

Blockchain technology

Technology is rapidly reaching new levels of success. The advancement of Blockchain technology is one of the latest triumphs in this direction. The new technology has considerably affected the financial sector. In reality, it was first created for the digital currency, Bitcoin, but is now even used in a number of other things.

It was probably easy to get this far, although you still have to know - what is Blockchain?

A distributed database. Consider an electronic list which is replicated on a computer network several times. Now, imagine that the computer network is so smartly built that it constantly updates the table itself. This is a broad Blockchain summary. As a shared database, Blockchain holds information. Therefore, this database is regularly reconciled.

It has its advantages. It does not require the database to be stored anywhere. The records have genuine public characteristics and can be easily checked. Since there is no centralized version of the documents, unauthorized users have no way of modifying or corrupting the data. The global Blockchain database is run by millions of computers at the same time, making the data accessible for almost anyone to access on the virtual network.

To explain the definition of this technology, explaining the example of Google Docs is a good idea.

After the arrival of e-mail, the standard way to share a document was to send a Microsoft Word Doc as an attachment to the recipient. The recipients must take their time to update the copy before sending it back. In this method, one must wait until the return copy is provided to see the changes to the text. This is because the sender is not allowed to make corrections until the receiver has updated and returned the text. Contemporary databases do not simultaneously require two owners to access the same record. This is how banks manage their clients or account holders' balance sheets.

Unlike the established practice, Google Docs enables both parties to

simultaneously access the same document. It also helps you to simultaneously view a single version of the text. Like a common directory, Google Docs functions as a shared folder. The distributed part only becomes relevant when multiple users are involved in sharing. The technology of Blockchain is, in a way, an extension of this concept. It is important to note that Blockchain is not supposed to share documents, it's only an example that will lead to having a clear understanding of this advanced technology.

Salient Blockchain supports Blockchain storing network-wide blocks of information that are the same.

- Information cannot be managed by a single entity under this function.
- There can be no single point of failure.
- The data is stored in a public network, ensuring full accountability throughout the whole process.
- Unable to corrupt the data stored therein.

As previously stated, Blockchain technology has a very high level of use in finance and banking. According to the World Bank, money transfers of more than US$ 430 billion were transmitted in 2015 alone. Blockchain developers, therefore, have substantial market demand.

Blockchain removes the intermediaries ' payoffs in such money transactions. It was the invention of the GUI which made it easier for ordinary people to access computers in the form of desktops. Similarly, Blockchain's wallet application is the most common GUI; users use the wallet to buy stuff with Bitcoin, or any other cryptocurrency.

Crypto-what about it?

When you've tried to dive into this mysterious thing called blockchain, you'd be forgiven for feeling horror at the sheer, opaque use of technical jargon. So let's talk about what blockchain technology is like before we get into what cryptocurrency and blockchain technology might be like. In the simplest terms, blockchain is a digital transaction log, not unlike the ledgers we've been using for hundred of years to record sales and purchases. This

digital leaflet is quite similar to a traditional leaflet which records debits and loans between people. This is the core concept behind blockchain; who holds the record and who verifies transactions is the difference.

Traditional transactions involve some type of intermediary to facilitate payment from one person to another. Let's say that Rob wants Melanie to transfer £20. You can either give your cash in the form of a £20 bill. or use a banking app to directly transfer the money between accounts. In both cases, a bank is the transaction intermediary: Rob's funds are checked when he takes the money from a cashier or makes the digital transfer via the app. The bank decides whether to proceed with the transaction. The bank also tracks all transactions made by Rob and is solely responsible for updating when Rob pays someone or receives money. That is, the bank holds and regulates the booklet; all flows through the bank.

This is a lot of responsibility, so Rob needs to feel that he can trust his bank; otherwise, he wouldn’t risk his money. He must be sure that the bank will not defraud him and that the money will not be lost, stolen, or disappear overnight. This confidence obligation has underpinned every major attitude and facet of the monolithic financial industry to the degree that even when it was discovered that banks were incompetent with our money during the 2008 financial crisis, the government (another intermediary) decided to rescue them instead of risking breaking down the final trust fragments.

In one respect, blockchains operate differently: they are fully decentralized. There is no central clearinghouse, such as a bank, and no central directory owned by an entity. The header is instead distributed across a huge network of computers, known as nodes, each containing on their hard drives a copy of the whole ledger. Such nodes are connected via a software piece called a peer-to-peer (P2P) client, which synchronizes data across node networks and ensures that everyone has the same version of their ledger at any time.

When a new transaction is entered in a blockchain, it is first encrypted using cutting-edge encryption technology. When authenticated, the transaction is transferred to a block - simply the word used for an encrypted group of new transactions. This block is

then transmitted to the network of computer nodes (broadcast), where it is verified with nodes. Once verified, it is then passed through the network so that the block can be added to the end of the header of the computer of everyone, under the list of all previous blocks. This is called the chain, which is why the code is called a blockchain.

Once the transaction has been accepted and reported in the ledger, it can be completed. This is how Bitcoin-like cryptocurrencies function.

Responsibility and trust loss: What are the benefits of this method over a banking or central clearing system? Why does Rob use Bitcoin rather than a regular currency?

The answer is confidence. As stated before, it is important for Rob to trust his bank to protect and handle his money correctly. Massive regulatory systems are in place in order to verify banks' activities are fit for purpose. Governments oversee the regulators, establishing a kind of tiered control system that only helps to avoid failures and bad conduct. In other words, it is precisely because banks cannot trust themselves that organizations like the Financial Services Authority exist. Banks often make mistakes, yet misbehavior, as you have seen, is too common. If you have a single authoritative source, power appears to be exploited or misused. The confidence relationship between people and banks is uncomfortable and precarious: we don't trust them, but we don't believe there are many alternatives.

With the blockchain system, on the other hand, you don't need to trust them at all. All transactions (or blocks) in a blockchain are checked by the nodes in the network before being added to the ledger, which ensures there is no single point of failure and no single approval process. If a hacker were to effectively tamper with the database on a blockchain, they would have to simultaneously hack millions of computers, which is unlikely. A hacker would also be pretty much unable to bring a blockchain network down because, again, they would need to be able to shut down every single computer in a network of computers spread around the world.

The encryption method itself is also a key factor. Blockchains like the one Bitcoin uses has intentionally complicated methods for their

authentication protocol. In the case of Bitcoin, blocks are tested by nodes performing purposefully processor-and time-intensive series of calculations, often in the form of puzzles or complex mathematical problems, which mean that verification is neither instant nor available. Nodes that do devote the resource to verification of blocks are compensated with a transaction fee and a bounty of newly-minted Bitcoins. This has the effect of both incentivizing people to become nodes (because processing blocks like this requires a pretty powerful computer and lot of electricity), while also managing the process of producing - or minting - units of the currency. This is referred to as mining because it requires a large amount of effort (by a machine, in this case) to produce a new product. It also mean that transactions are verified in the most independent way possible, more independent than a government-regulated organization like the FSA.

This decentralized and highly secure existence of blockchains means that they can operate without the need for regulation (they are self-regulating), government, or other opaque intermediaries. We work because people don't trust each other, rather than in spite of it.

Let the importance of that sink in for a while and the thrill around blockchain becomes meaningful.

Smart contracts which use blockchain outside cryptocurrencies like Bitcoin are fascinating. Because a safe, independent verification of the transaction is one of the underlying principles of the blockchain framework, it is simple to think of other ways this form of the process could be of benefit. Many of these applications are not, surprisingly, already in use or development. Some of the best are:

- Intelligent contracts (Ethereum): Probably the most exciting blockchain after Bitcoin, smart contracts are blocks that contain code that needs to be implemented to satisfy the contract. The code can always be anything as long as a computer can run it, but in simple terms, it means that you can use blockchain technology to create a kind of escrow system for any transaction (with independent control, trustless architectures, and security). When, for example, you are a web designer, you can build a contract to test

whether or not the website of a new client is launched and then release the funds once it is launched for you. Don't chase or invoice anymore. Intelligent contracts are also used to indicate ownership of an object, such as property or art. With this strategy, the ability to reduce fraud is immense.

- Cloud storage (Storj): Cloud computing revolutionized the web and contributed to a Big Data explosion that started a new AI revolution. Nonetheless, most cloud-based systems operate on servers located in single-location, single-entity server farms (Amazon, Rackspace, Google, etc.). This poses the same issues as the banking system because your data is regulated by one centralized entity; a single point of failure. The distribution of data on a blockchain eliminates the trust issue and also guarantees security because it is so much more difficult to break a blockchain network.
- Personal identity (ShoCard): Fraud and data protection are two of the biggest issues of our time. The misuse of our personal information is frightening. Massive centralized networks such as Facebook have so much data on us and various developed-world governments attempt to store digital information about their people in a central database. This can be solved by wrapping your key data in a secure block which can be checked by the blockchain network whenever you want to prove your identity.
- Blockchain technology: The requirements range from the obvious substitution of passports and I.D. Cards in other fields, such as password replacement. It could be huge.
- Electronic voting: Online voting has long been suspected of being inaccurate, as well as highly vulnerable to disruption following an investigation into Russia's interference in the recent U.S. election. Blockchain technology provides a way to ensure that a vote was sent successfully while its anonymity remains unchanged. Not only does it aim to reduce election fraud, it also aims to increase the general participation of voters because people can vote on their mobile phones.

Blockchain technology is still very young; most implementations are far from being used in general. Even Bitcoin, the most established blockchain platform, is subject to enormous volatility, indicating its status as a relative newcomer. Nonetheless, blockchain's ability to solve some of the big problems that we face today makes it incredibly fascinating and seductive.

How Is Blockchain Technology Making The World Better?

What is blockchain?

The word blockchain has been used in many media and corporate talks in recent years. Everyone seems to have learned about blockchain technology, but the majority of people don't know what it means.

To explain clearly what blockchain technology means, we will give you a quick picture of the history of how money transaction has evolved. Historically, every time people exchanged valuable items, intermediaries had the sole aim of documenting the legitimacy of both parties and building trust between them. A safer approach has evolved with the advent of digital assets, such as securities, electronic money, and intellectual property. This is because digital assets are typically computer-based files that are vulnerable to manipulation and theft. Therefore, using blockchain technology allows parties to work freely and transparently, ensuring a stable and efficient exchange.

The Future of Bitcoin

Blockchain has the potential to completely disrupt the financial industry, as social media has disrupted mainstream media or as Netflix has ruined Blockbuster. Blockchain technology has the ability to be used as a tool for delivering worldwide financial services to everyone, including developing countries that cannot access traditional banking services or afford the rates charged for large transactions. Its technology has the potential to make substantial breakthroughs in almost all major industries that are currently exploited by large companies.

The uses of blockchain technology in education

Blockchain technology can be used to find students who need and can afford bonds. This is because some students have circumvented the program and received funding. This would harm poor students who end up withdrawing or raising a lot of debt that

makes them almost work for.

There are a huge number of people burying their heads in the sand. They want blockchain to go away, but this technology isn't going anywhere. In the future, we will all exchange via blockchain and our grandchildren will learn about money and ATMs like we learned about bartering and gold. It is thus imperative that we jump on the bandwagon and adjust as soon as possible before we have to adapt.

Blockchain technology is capable of serving a wide range of sectors - agribusiness, luxury, international trade, retail, food, aviation, cars, music industry, energy, real estate, banks, insurance, and the health and pharmaceutical industries. Blockchains have the potential to replace most centralized "trusted third parties" with distributed computer systems, including banks, notaries, land registries, etc.

1. Medicine/Pharmacy: Blockchain technology can be used to improve the quality of medicines. Unless medicines can be identified and monitored from development to use, up to a million lives could be saved every year. DHL already works with Accenture to develop a blockchain-based system for track and trace serialization:

"There are already over 7 billion specific prescription serial numbers in the network, and the system can handle more than 1 500 transactions per second," said DHL Chairman of Healthcare Scott Allison.

Allison not only has the system's potential in mind. Track and trace serialization, for example, will reduce costs, increase safety and confidence, and remove error-prone data movement. The technology will attach more verified information to the feature that cannot be manipulated. Both participants carry out the testing.

"It's not the only way to make GLOBAL serialization a reality," says Allison

2. Fashion: the CGS project allows customers to track the entire life cycle of a garment. This brings together businesses from the luxury, apparel, and consumer products industries. This approach no longer requires customers to rely blindly on sustainability; blockchain technology facilitates environmental and apparels compliance monitoring

3. Cross-border payments: Access to capital for small-scale food producers is often a major problem in developing and underdeveloped countries. Binkabi is a cross-border agricultural network with the aid of a Sweet Bridge block bridge solution. A framework for fair trade in commodities is, therefore, to be established.

IBM recently announced a blockchain banking solution. The aim is to make international payments faster and cheaper.

4. Food Safety: IBM partners with food manufacturers Dole, Nestlé, and Walmart on food safety. Data from the breeders, manufacturers, producers, distributors, and retailers are, therefore, not only open to everyone involved, but also the supervisory bodies and customers. Through transaction this can therefore be tracked and all food details can be seen. With exposure to the blockchain by all food system stakeholders, contaminated food will easily be removed from the production and supply chain before hitting the shelf.

The World Wildlife Fund (WWF) uses blockchain technology to "mark" fish and seafood. The technology will help combat illegal fishing in this area. Nevertheless, it is also of concern to fish wholesalers and fish retailers to completely track fish and seafood because they want to prevent illegal activities from associating with their products and labels.

5. Humanitarian crises: The technology Blockchain is not only used by businesses. It is currently employed in 16 fields, including World Food System (Refugee Aid) and Humanitarian Affairs Coordinating Office (Donor Funding, Safeguarding, and Supply Chain Monitoring). The United Nations is currently using blockchain technical resources to address current issues, including child trafficking.

Microsoft and Accenture have announced a partnership as part of the public-private partnership ID2020. The goal is to provide 1.1 billion people with a secure form of identity and identification through blockchain technology.

6. Jewelry: The Brilliant Earth company plans to use blockchain technology to accurately track the origins of diamonds and other gems in partnership with Ever Ledger. This means that only stones free of the dispute are handled.

Feelium is one of the best examples of blockchain technology. Feelium provides a tokenized framework to simplify and protect contract transactions. The Feelium platform has a number of unique features, such as a centralized network for the blockchain, private key recovery, and cloud storage rather than a decentralized platform. Feelium is intended to be a one-stop trading platform for all in B2B and B2C scenarios.

CONCLUSION

Technology has made incredible progress in comparison with previous times. This evolution has redefined man's life in nearly every way. In reality, this evolution is a continuous process and, therefore, human life on earth is continually improving every day. Cryptocurrencies are one of the new inclusions.

Cryptocurrency is nothing more than a digital currency designed to enforce online currency transaction protection and anonymity. This uses encryption to produce currency and to validate transactions. The new coin is generated through a process known as mining, while the transactions are registered in a public directory called the transaction blockchain.

Sincerely,

Yours, Matthew Smith.

If you are pleased with my book, please leave review with your suggestions.